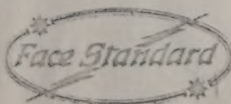


IF GENERATOR

SERIAL N° 71569

Issue 10.1969



FABBRICA APPARECCHIATURE PER COMUNICAZIONI ELETTRICHE-STANDARD S.p.A.
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5. I.F. GENERATOR

5.1. Power supply

The meter is preset to be fed by a 220 V a.c. mains.

In case that the meter must be fed at 110 V a.c., move the center connection of fuse F2 to central terminal of F1

5.2. Meters

Pulse generator FACE FGI-057

Milliwattmeter HP mod 431-B or similar

Oscilloscope Tektronix mod.545 or similar

Millivoltmeter Porter mod.626 or similar

Frequency counter HP mod.5245L or similar

Converter for counter HP mod.5253B or similar

R&S Receiver mod.ESM 180/EN 15073 or similar

Variable attenuator 0-110 dB 50 ohm

Avometer analyzer 20 Kohm/Volt or similar

5.3. Electrical characteristics

RF output power on C.W.: 0.8 mW min.

Output power with square wave modulation: 1 mWp min.

Output frequencies: 62.1-62.9-63-63.1-63.9 MHz

Detector output voltage: 400 mVpp min.

Attenuator : 0-100 dB

5.4. Electrical checks

5.4.1. Detector calibration

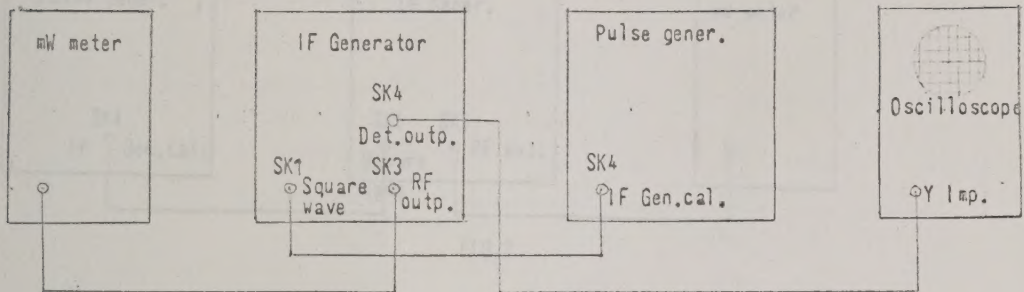


FIG. 1

Connect as Fig. 1

Set the switch SW1 on 63 MHz

Adjust on the Pulse Generator the "Cal. IF Gen." control to read on the bolometer 0.5 mW (1 mWp)

Adjust on IF generator the potentiometer RV1 to read on the oscilloscope an amplitude of 0.4 Vpp

5.4.2. Output frequencies

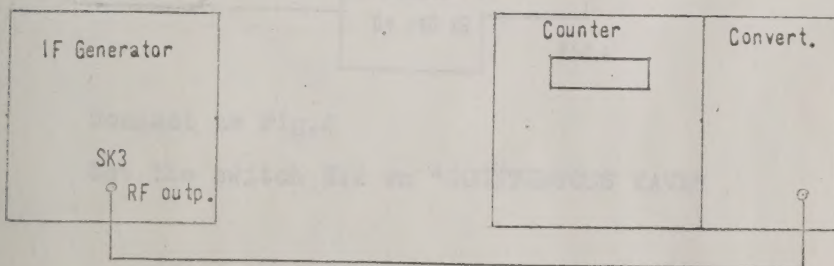


FIG. 2

Connect as Fig. 2

Set the switch S2 on "CONTINUOUS WAVE"

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5.4.3. Output power

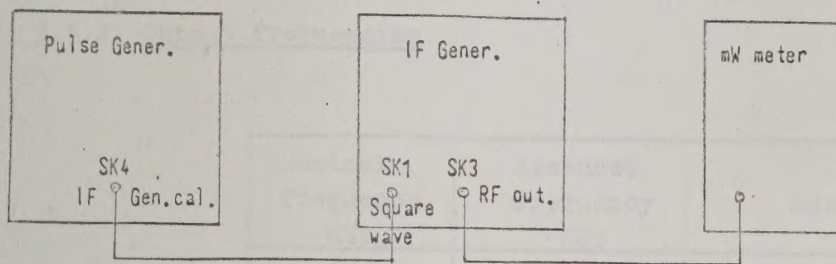


FIG.3

Connect as Fig.3

Set the switch SW2 on "SQUARE WAVE"

Set the switch SW1 on 63 MHz

5.4.4. Attenuator calibration

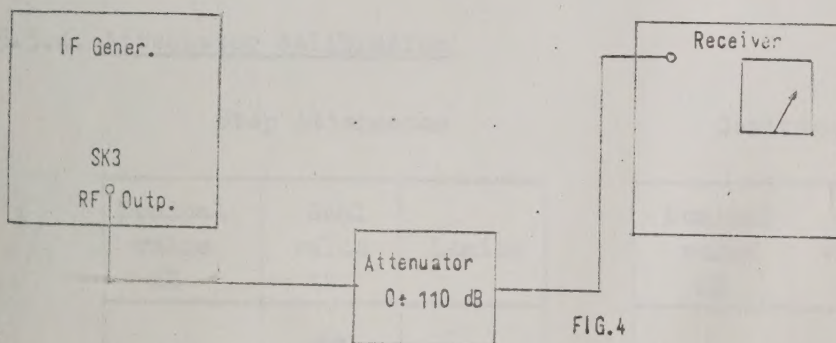


FIG.4

Connect as Fig.4

Set the switch SW2 on "CONTINUOUS WAVE"

5.5. Acceptance data5.5.1. Detector output voltage

Detector output voltage for 1 mWp: (0.4 Vpp)

5.5.2. Output frequencies

Nominal frequency MHz	Measured frequency MHz	Limits
62.1	+ 1789	$\pm 50 \cdot 10^{-6}$
62.9	1850	
63	2200	
63.1	2190	
63.9	1548	

5.5.3. Output power

Output power: (1 mWp min.)

5.5.4. Attenuator calibration

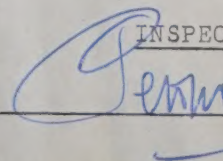
Step Attenuator

Nominal value dB	Real value dB	Limits
20	23	± 5 dB
40	43	
60	63	
80	83	

Continuous Attenuator

Nominal value dB	Real value dB	Limits
10	5	± 5 dB
20	15	

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